**Earth, Space, and Physical Science- Lab Report Rubric *Whirly Bird Lab***

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Component** | **5 Exceeds Standard** | **4 Meets Standard 3** | **2 Does Not Meet Standard 1** | **Score** |
| **Question, Background, Purpose, Hypothesis**  **10** | -Background clearly lists 4-5 potential variables  -Question, purpose, and hypothesis are written in the proper format (discussing the independent and dependent variables where appropriate). | One component missing or not complete. | Two or more components missing or not complete. |  |
| **Experimental Design**  **3** | -Chosen variable is clearly stated.  -Descriptions of modification of independent variable is listed for each of the 3 test groups including the control group. | Lacking some detail in steps and/or lacking some detail in picture/diagram of setup and/or safety precautions. | Lacking great detail in steps and/or fewer than 10 trials and 3 test groups. Lacking great detail in picture/diagram of setup and/or safety precautions. |  |
| **Results: Quantitative Data**  **[Table]**  **8** | -All measurements applicable to the procedure are clearly recorded and organized into data table using metric measurements.  -Table has an accurate title  -Independent and dependent axes are correctly labeled  -Data table is completely filled in with the correct data and averages calculated | Most measurements applicable to the procedure are clearly recorded and organized into data table using metric measurements. | Fewer than 10 trials and/or test groups. Some measurements applicable to the procedure are clearly recorded and organized into data table using metric measurements. |  |
| **Graph**  **10** | -Titled and labeled graph is present that provides all data in a clear, accurate, and appropriate fashion.  -Graph is completed on a computer program or graph paper | One criterion is incomplete, inaccurate or missing. | Two or more criteria are incomplete, inaccurate or missing. |  |
| **Discussion/Conclusion**  **17** | -Restates the hypothesis  -States whether the hypothesis is supported or refuted.  -A complete and correct analysis of actual data clearly and accurately explains the trend shown in the graph.  -Author uses supporting details from lab/research to explain the science behind the experimental results.  -Errors of experimentation are provided, explaining how they may have affected the data/results.  -Connected experiment to a real-life situation | Two criteria are incomplete, inaccurate or missing. | Three or more criteria are incomplete, inaccurate or missing. |  |
| **Mechanics & Usage**  **2** | No obvious errors in punctuation, spelling, sentence structure and/or word usage. | Few obvious errors in punctuation, spelling, sentence structure and/or word usage. | Many errors in punctuation, spelling, sentence structure and/or word usage. |  |

**Comments: TOTAL SCORE:** /**50**